

Faculty of Information and Communication Technology

ITCS212 Web Programming

L08: Node.js (Part I)

Instructions:

- Please download **L08.zip** for the template and the files used for this exercise.
- There are 1 question to be submitted. Student must submit to LAs or instructors prior to MyCourses
- If students cannot finish within the class time, students can submit until the end of the semester.

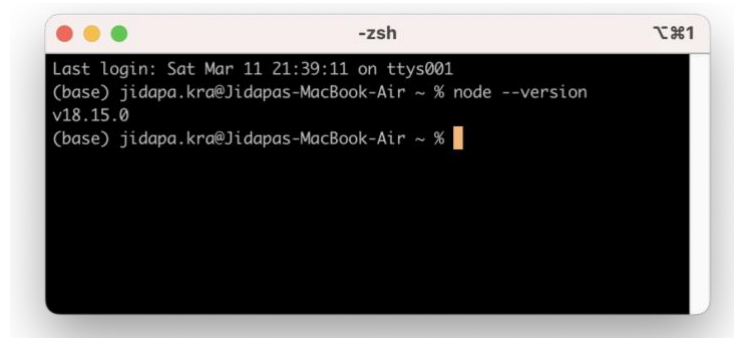
You must install Node.js prior to this question.

Get Node.js Installed

- Download the latest Node.js LTS version from <https://nodejs.org/en/> and install the program.
- Check the version of your Node.js by the command line:

```
node --version
```

If Node.js is installed correctly, the terminal should show the current version as followed:



Build the Server in Node.js

You are required to create the server using Node.js HTTP module. The following steps are needed to set up your working directory:

1. Create the directory, named Lab08-XX88XXX
2. Download L08.zip from MyCourses and extract the files to the directory in Step 1
3. Open Visual Studio Code and click "Open Folder" to browse the directory created in Step 1
4. Create an empty JS file, named Lab08-XX88XXX.js, which will be used to store your script.

After setting up (Step 1-4), your directory should have the following structure:

```
Lab08-XX88XXX      (root)
|_ Lab08-XX88XXX.js (main JS file)
|_ search.html
|_ error.html
```

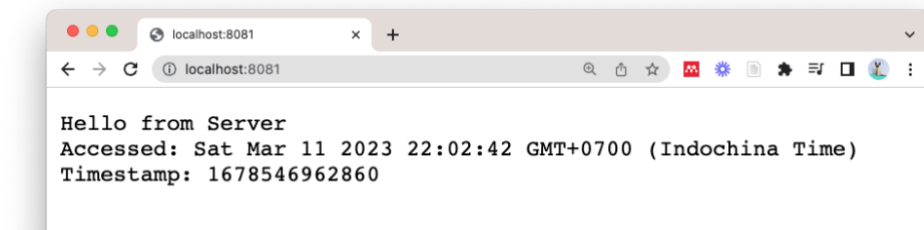
The requirements of the server from HTTP module are:

- Server will be run on localhost at the port 8081
- Server will handle the following requests with the proper responses, including:
 - When there are requests coming at the **root** (i.e., '/'), the server will respond with the greeting message in the plain text showing the current date, time, and the timestamp.

Expect output

http://localhost:8081/

```
(base) <PATH to YOUR PROJECT> % node L08-XX87XXX.js
Listening on the port 8081
Req: /
```



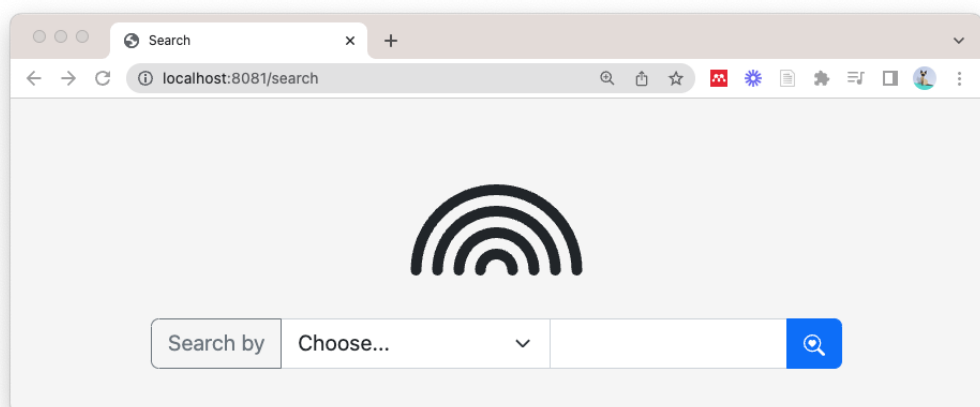
Note: The output was Zoom-in at 175%

- When there are requests coming at '/search', the server will respond with search.html (statusCode=200 OK)

Expect output

http://localhost:8081/search

```
(base) <PATH to YOUR PROJECT> % node L08-XX87XXX.js
Listening on the port 8081
Req: /search
```

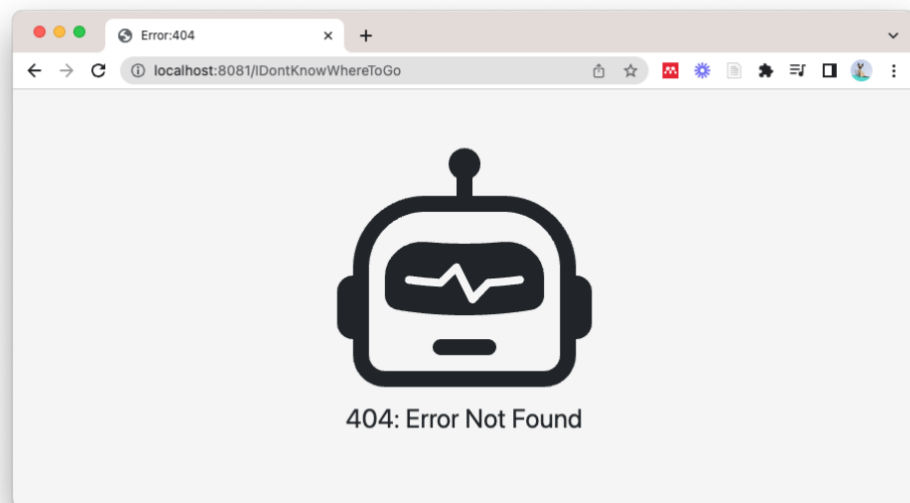


- When there are requests coming at other paths not declared above, the server will respond with `error.html` (`statusCode=404` `Not Found`)

Expect output

`http://localhost:8081/IDontKnowWhereToGo`

```
(base) <PATH to YOUR PROJECT> % node L08-XX87XXX.js  
Listening on the port 8081  
Req: /IDontKnowWhereToGo
```



Submission:

- Student must submit to LAs or instructors prior to submit the file to MyCourses
- Submit only JS file, named **Lab08-XX88XXX.js**. Please check your submission to make sure it is runnable.